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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/730,877 12/05/2000		Knut Bakke	28170-00011USP1	9349	
27045	7590	05/19/2004		EXAMINER	
ERICSSON		_	TRAN, THIEN D		
6300 LEGA M/S EVR C		E		ART UNIT	PAPER NUMBER
PLANO, T				2665	
			``	DATE MAILED: 05/19/2004	`{'

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Applica	ation No.	Applicant(s)				
_			0,877	BAKKE ET AL.				
	Office Action Summary	Examir	ner	Art Unit				
		Thien D		2665				
Period fo	The MAILING DATE of this commu or Reply	nication appears on	the cover sheet with th	e correspondence a	ddress			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD IN MAILING DATE OF THIS COMMUN Insions of time may be available under the provision SIX (6) MONTHS from the mailing date of this correspend for reply specified above is less than thirty to period for reply is specified above, the maximum is the toreply within the set or extended period for repreply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	NICATION. us of 37 CFR 1.136(a). In no imunication. (30) days, a reply within the statutory period will apply and by will, by statute, cause the	event, however, may a reply b statutory minimum of thirty (30) d will expire SIX (6) MONTHS f application to become ABANDO	e timely filed  days will be considered time rom the mailing date of this of DNED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) fil	ed on 12 May 2000						
2a)□		2b)⊠ This action is						
3)□	Since this application is in condition	prosecution as to the	e merits is					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-26</u> is/are pending in the 4a) Of the above claim(s) is/s Claim(s) is/are allowed.  Claim(s) <u>1-26</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restrict the content of th	are withdrawn from		·				
Applicati	ion Papers							
9)[	The specification is objected to by the	ne Examiner.						
10)[	The drawing(s) filed on is/are	e: a) accepted or	b) objected to by the	e Examiner.				
	Applicant may not request that any obje	ection to the drawing(s	s) be held in abeyance.	See 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including The oath or declaration is objected to the oath of the oath or declaration is objected to the oath or declaration is objected to the oath of the oath or declaration is objected to the oath of the oath or declaration is objected to the oath of the oath	•	• , ,	·	` '			
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ a)∣	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	or documents have be documents have be of the priority document Bureau (PCT R	een received. een received in Applic ments have been rece Rule 17.2(a)).	ation No. <u>09/222,44</u> vived in this National				
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	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (	PTO-048\	4) Interview Summ Paper No(s)/Mai					
3) 🔯 Infor	e of Draitsperson's Patent Drawing Review ( nation Disclosure Statement(s) (PTO-1449 o r No(s)/Mail Date <u>4</u> .			al Patent Application (PT	O-152)			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4, 6-10, 12-15, 17-21, 23-26 are rejected under 35 U.S.C. 102(e) as being participated by Sallberg (U.S Patent No. 6,137,783).

Regarding claims 1, Sallberg discloses a method for handing over of a connection from a first serving GPRS support node (SGSN) to a second SGSN in response to an inter SGSN routing area update the method comprising the steps of:

operating the old MPDS (first SGSN) as a temporary anchor in response to the inter SGSN routing area update, col.8 lines 20-25; and

forwarding context messages (redirecting signaling traffic) to and from the new MPDS (second SGSN) via the old MPDS (first SGSN) while the old MPDS is operating until the expiration of time at which MT being served by the old MPDS (as the temporary anchor), col.8 lines 30-35, figure 7.

Regarding claims 2, 13, Sallberg discloses the step of initiating the inter MPDS (SGSN) routing area update in response to a mobile station moving from a old MPDS

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service area associated with the old MPDS to a new MPDS service area associated with the New MPDS, col.8 lines 20-25.

Regarding claims 3, 14, Sallberg discloses the step of redirecting further comprises the step of establishing a temporary leg between the old MPDS and the new MPDS, col.8 line 34.

Regarding claims 4, 15, Sallberg discloses the step of redirecting further comprises the step of redirecting the signaling traffic from the old MPDS to the new MPDS via the temporary leg, col.9 lines 3-10.

Regarding claims 6, 17, Sallberg discloses the step of transferring connection control from the old MPDS to the new MPDS in response to the connection being maintained by the first old MPDS entering an end of handoff (a standby state), col.8 lines 34-35.

Regarding claims 7, 18, Sallberg discloses the step of transferring further comprises the step of performing the inter MPDS routing area update between a Gateway GPRS support node (GGSN) and the second MPDS, col.3 lines 60-65, col.5 lines 40-50.

Regarding claims 8, 19, Sallberg discloses the step of transferring connection control is performed using LLC – layer 2 (without interrupting layer 3) procedures and data transmission, col.7 lines 55-65.

Regarding claims 9, 20, Sallberg discloses the step of releasing the connection of the old MPDS (temporary leg) in response to completion of the transfer of connection control from the old MPDS to the new MPDS, figure 7.

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Regarding claims 10, 21, Sallberg discloses the step of communicating subsequent signaling traffic directly between a Gateway GPRS support node (GGSN) and the new MPDS without redirecting the subsequent signaling traffic via the old MPDS, the subsequent signaling traffic occurring after the release of the temporary leg, col.8 lines 30-35, figure 7.

Regarding claim 12, Sallberg discloses system for handing over of a connection between at least two GPRS nodes in response to an inter MPDS (SGSN) routing area update, the system comprising:

a old MDPS operating as a temporary anchor in response to the inter MPDS routing area update, col.8 lines 20-25; and

a new MPDS in communication with the old MPDS, the old MPDS redirecting signaling traffic to and from the new MPDS via the old MPDS while the MPDS is operating as the temporary anchor, col.8 lines 30-35, figure 7.

Regarding claim 23, Sallberg discloses a method for handing over of a connection between GPRS support nodes (SGSN), the method comprising the steps of receiving a routing update;

forming a temporary leg between an old and a new MPDS (SGSN) after receiving the routing update; and redirecting signaling traffic across the temporary leg, figure 7.

Regarding claims 24, 25, Sallberg discloses releasing connection associated with the old MPDS (the temporary leg); and communicating subsequent payload traffic between a GPRS and and the new MPDS, col.8 lines 30-40.

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Regarding claim 26, Sallberg discloses communicating a context forward message from the old MPDS (SGSN) to the new MPDS; receiving a context forward acknowledgment from the new SGSN; and releasing the temporary leg after receiving the context forward acknowledgment, figure 7.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5, 11, 16, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sallberg (U.S Patent No. 6,137,783) in the view of Nevo et al (U.S Patent No. 6,320,873 B1).

Regarding claims 5, 16, Sallberg discloses the step of establishing the temporary leg comprises the step of establishing a channel for the update routing context or URC accept between the old MPDS and the new MPDS, figure 7. Sallberg does not disclose that the channel is a Gb interface. Nevo discloses that Gb channel interface is used for transferring signaling and data information between base stations, col.2 lines 45-50. Therefore, it would have been obvious on one having ordinary skill in the art to use Gb channel interface in the channel between MPDSs so that the system of Sallberg can effectively use the GSM standard Gb interface in communication.

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Regarding claim 11, 22, Sallberg does not disclose the steps of allowing subscriber charge transactions to be completed towards a billing gateway before performing the step of transferring connection control to the new MPDS. Nevo discloses the step used for calculating bills and charges toward a MS (subscriber) in the GSM system having SGSN nodes, col.8 lines 50-60. Therefore, it would have been obvious to one having ordinary skill in the art to include the feature of billing to charge for network enhancement's cost in the system of Sallberg so that the network can provide services for users with expensive equipments and resources.

### Conclusion

5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (703) 308-4388. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (703) 308-6602. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Thien Tran

STEVEN NGUYER
PRIMARY EXAMINER